FIG. 1

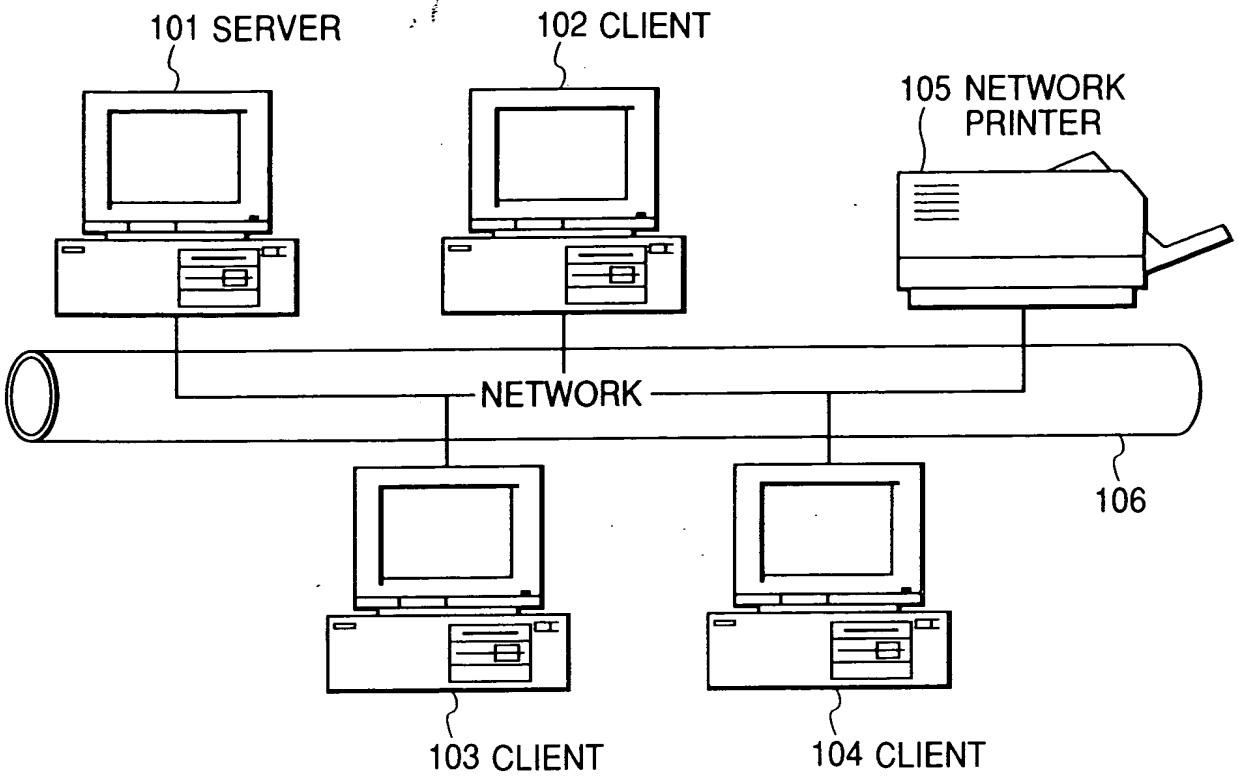


FIG. 2

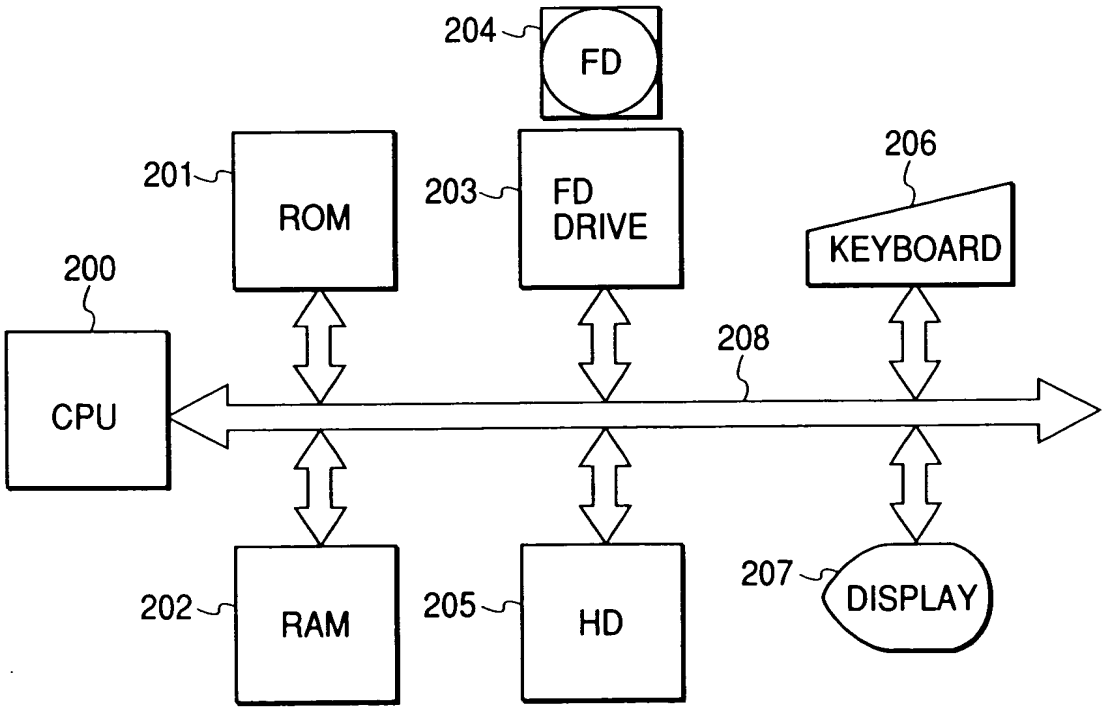


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FIG. 3

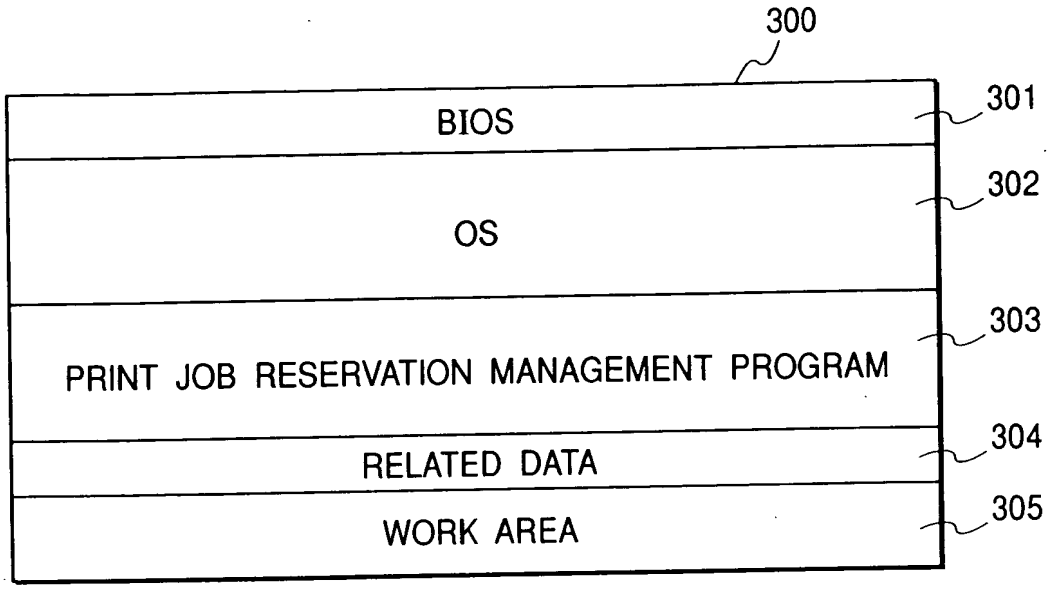
300
BIOS
301
OS
302
PRINT JOB RESERVATION MANAGEMENT PROGRAM
303
RELATED DATA
304
WORK AREA
305

FIG. 4

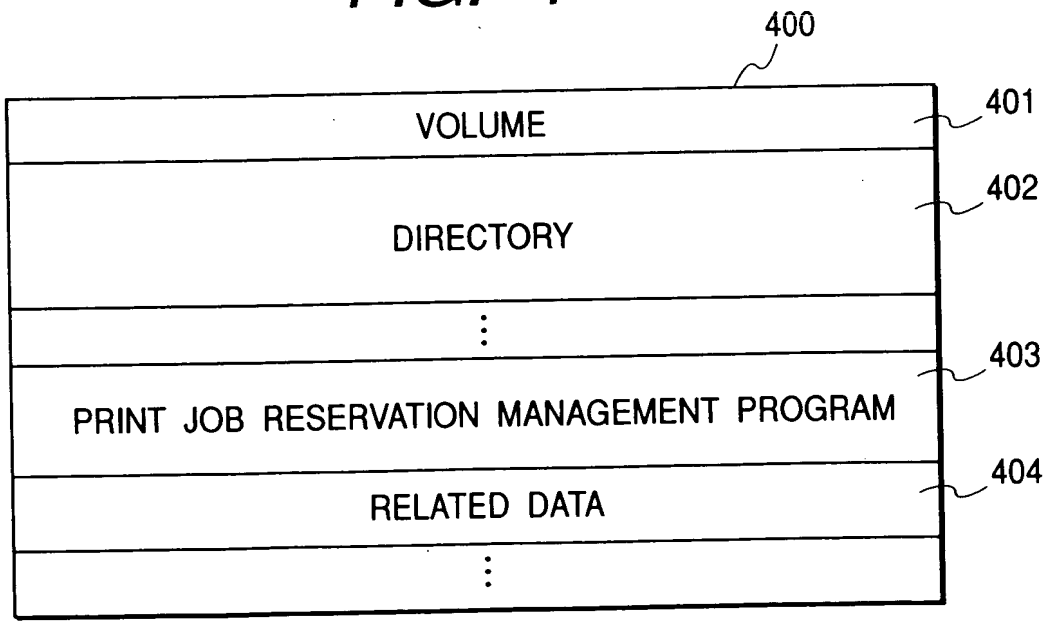
400
VOLUME
401
DIRECTORY
402
403
PRINT JOB RESERVATION MANAGEMENT PROGRAM
RELATED DATA
404

FIG. 5

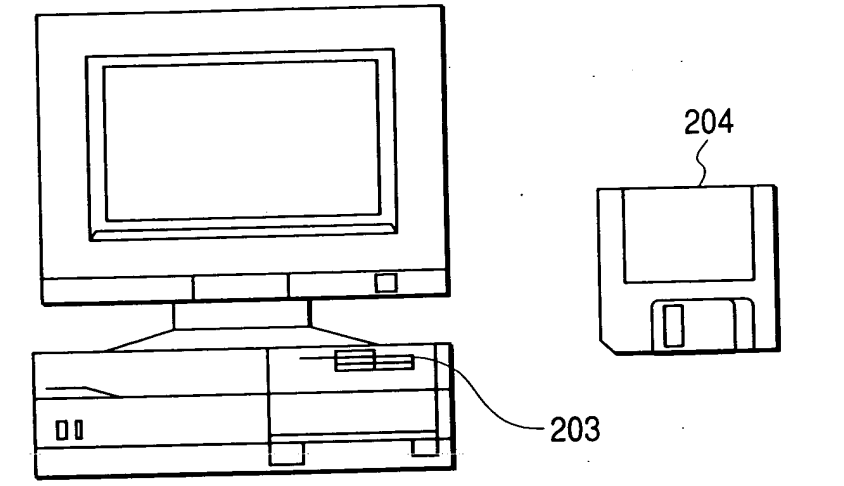


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FIG. 6

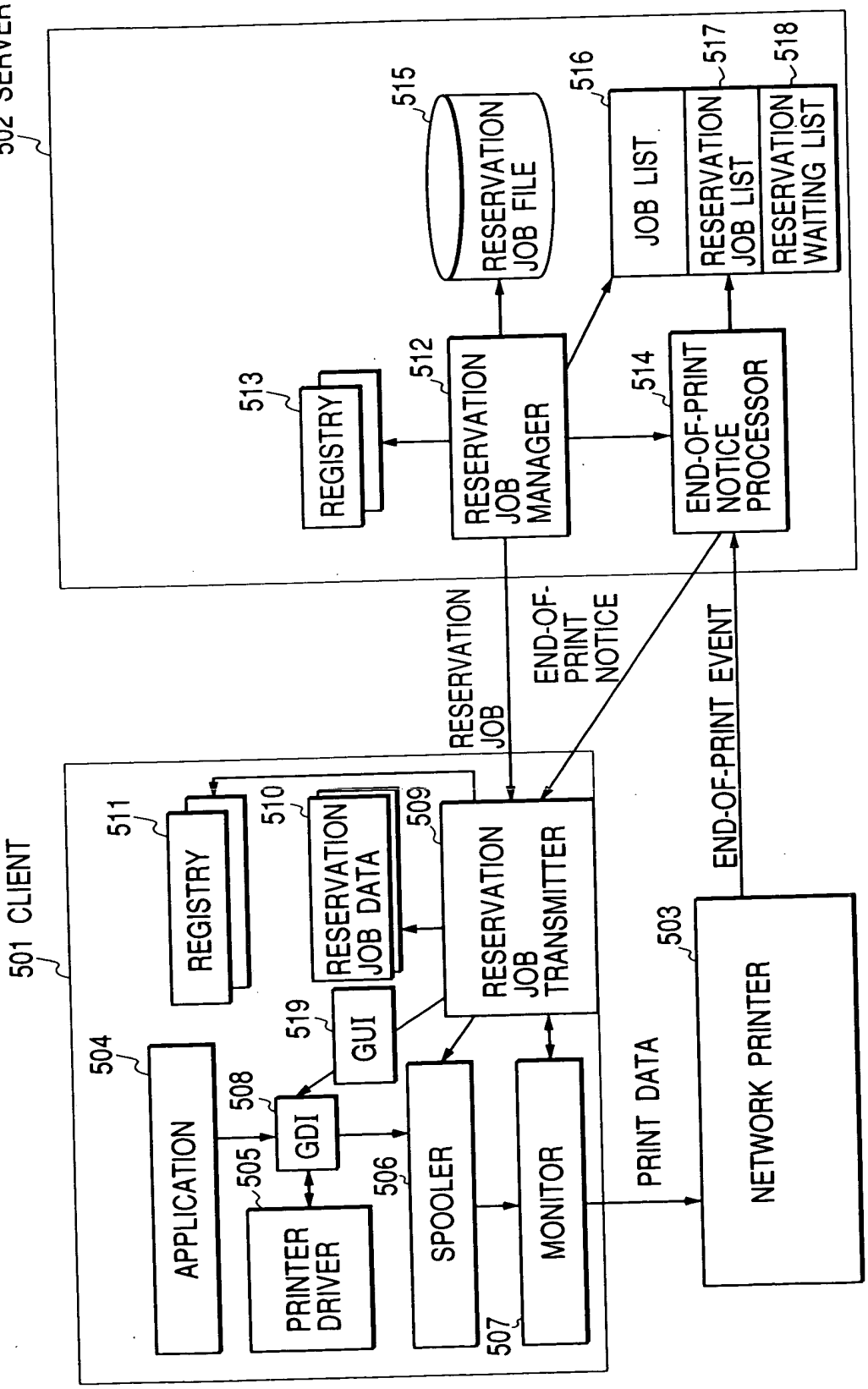

FIG. 7

CLIENT REGISTRY

| SERVER OPERATING STATUS (BITS) |
|---|
| SERVER NAME (CHR TRAIN) |
| SERVER IP ADDRESS (CHR TRAIN) |
| ⋮ |

FIG. 8

SERVER REGISTRY

| LOG RESERVATION LOCATION (CHR TRAIN) |
|---|
| ERROR INFO (BITS) |
| LOG RESERVATION PERIOD (NUMERAL) |
| ⋮ |

FIG. 9

LIST STRUCTURE

| INDEX (NUMERAL) |
|---|
| JOB ID (NUMERAL) |
| NAME OF RESERVATION JOB FILE (CHR TRAIN) |
| SIZE OF RESERVATION JOB (NUMERAL) |
| LOG RESERVATION PERIOD (NUMERAL) |
| USER NAME (CHR TRAIN) |
| DOCUMENT NAME (CHR TRAIN) |
| PRINTER NAME (CHR TRAIN) |
| DRIVER NAME (CHR TRAIN) |
| ADDRESS OF NEXT LIST |

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FIG. 10

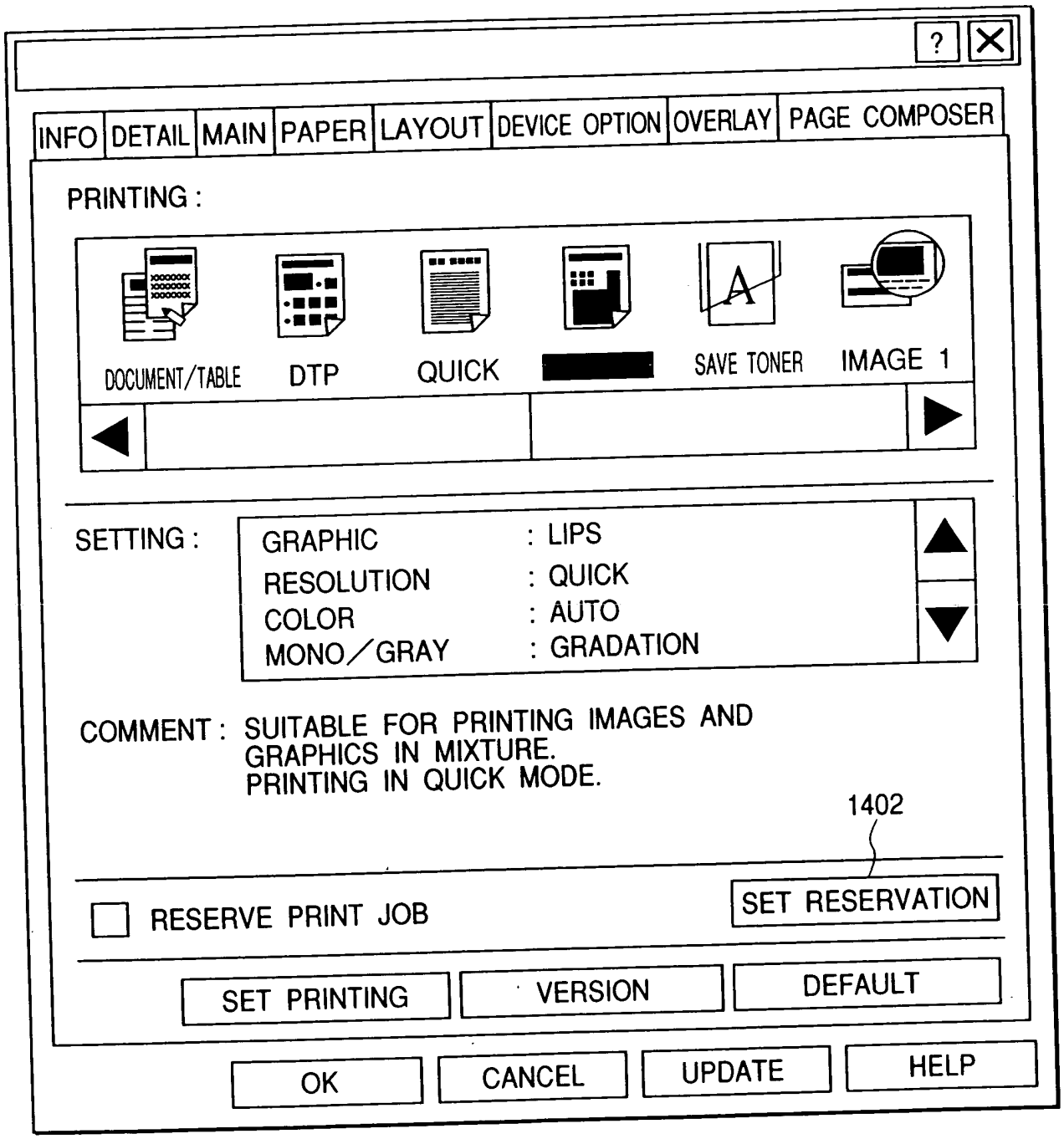


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FIG. 11

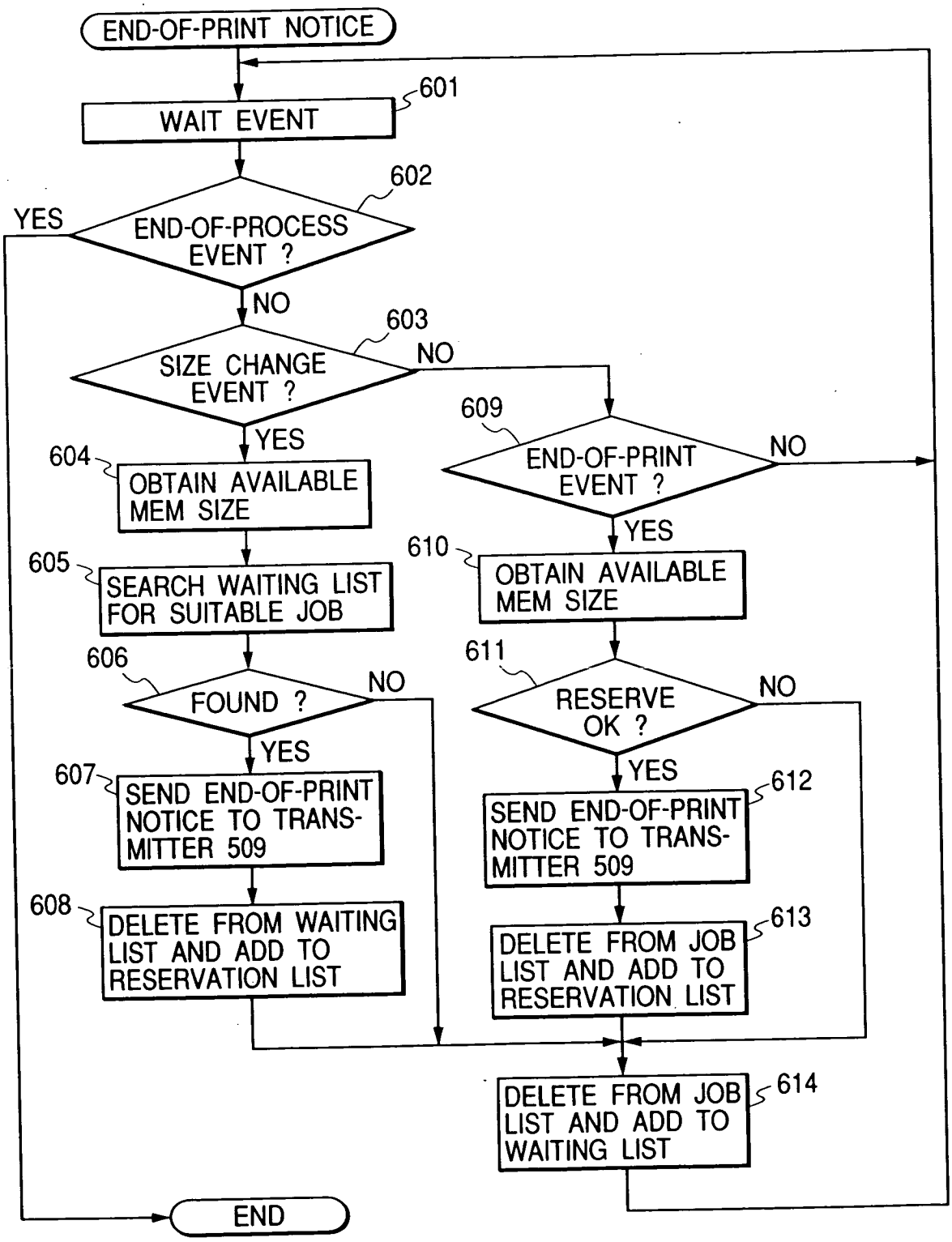
END-OF-PRINT NOTICE
WAIT EVENT
601
END-OF-PROCESS EVENT ?
602
YES
NO
SIZE CHANGE EVENT ?
603
NO
YES
OBTAIN AVAILABLE MEM SIZE
604
SEARCH WAITING LIST FOR SUITABLE JOB
605
FOUND ?
606
NO
YES
SEND END-OF-PRINT NOTICE TO TRANSMITTER 509
607
DELETE FROM WAITING LIST AND ADD TO RESERVATION LIST
608
END-OF-PRINT EVENT ?
609
NO
YES
OBTAIN AVAILABLE MEM SIZE
610
RESERVE OK ?
611
NO
YES
SEND END-OF-PRINT NOTICE TO TRANSMITTER 509
612
DELETE FROM JOB LIST AND ADD TO RESERVATION LIST
613
DELETE FROM JOB LIST AND ADD TO WAITING LIST
614
END

FIG. 12

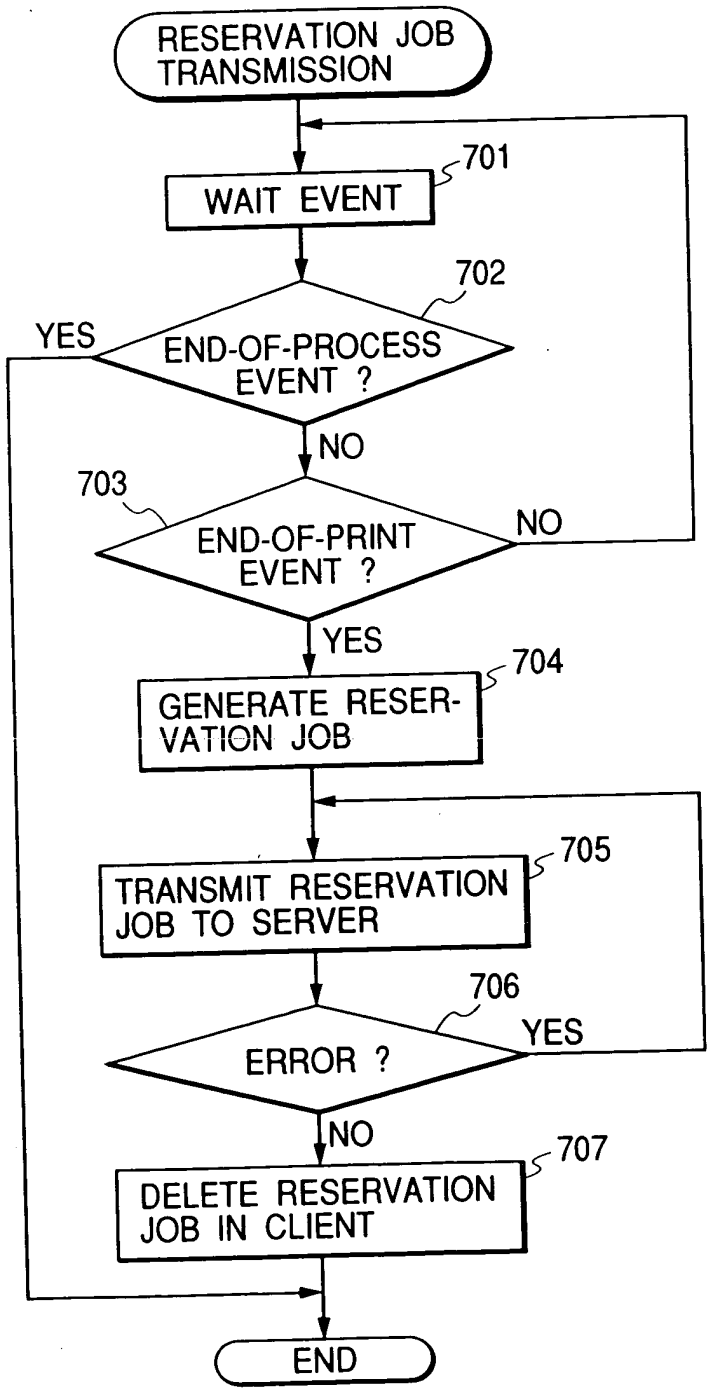


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FIG. 13

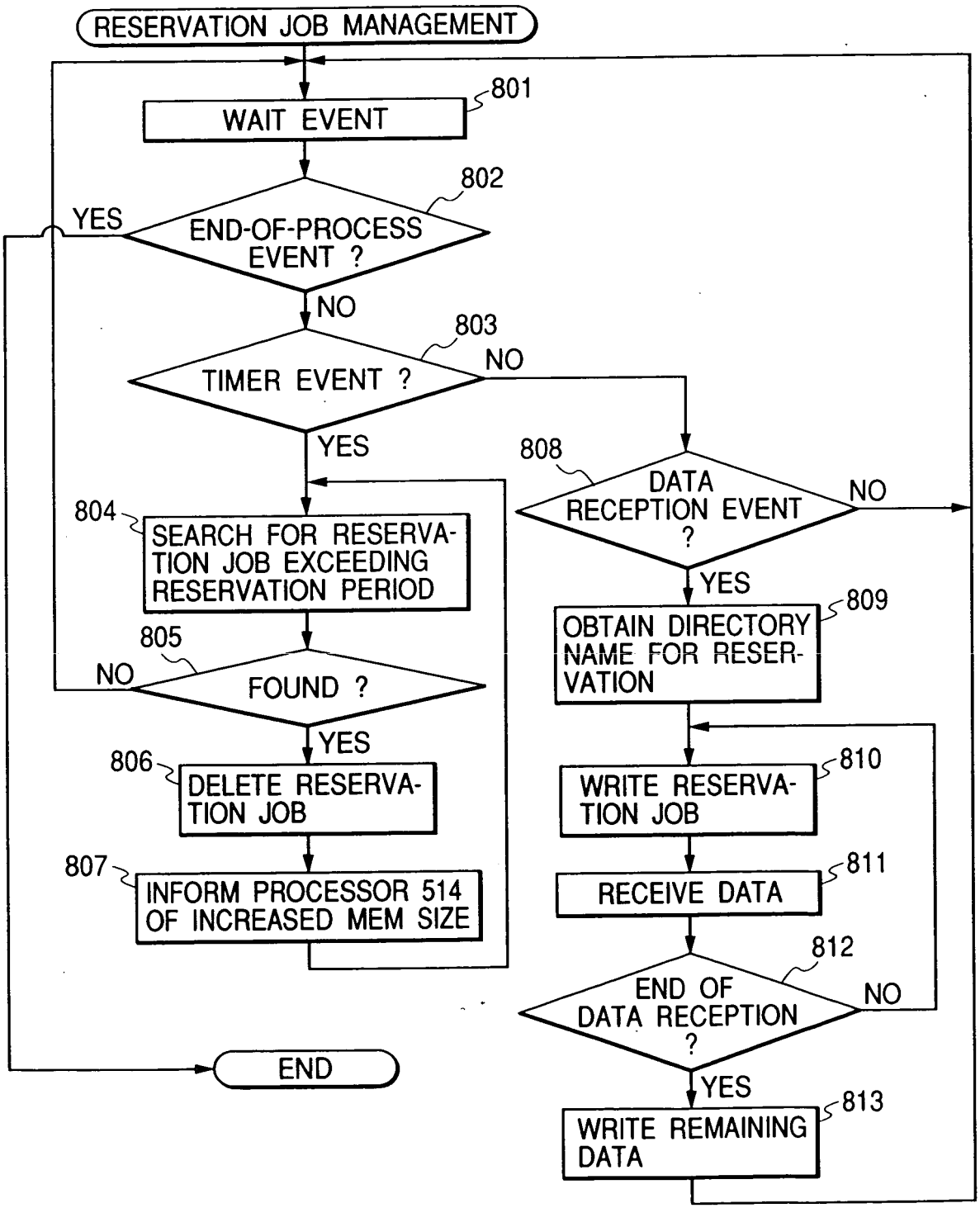
RESERVATION JOB MANAGEMENT
WAIT EVENT
801
END-OF-PROCESS EVENT ?
802
YES
NO
TIMER EVENT ?
803
NO
YES
SEARCH FOR RESERVATION JOB EXCEEDING RESERVATION PERIOD
804
FOUND ?
805
NO
YES
DELETE RESERVATION JOB
806
INFORM PROCESSOR 514 OF INCREASED MEM SIZE
807
END
DATA RECEPTION EVENT ?
808
NO
YES
OBTAIN DIRECTORY NAME FOR RESERVATION
809
WRITE RESERVATION JOB
810
RECEIVE DATA
811
END OF DATA RECEPTION ?
812
NO
YES
WRITE REMAINING DATA
813

FIG. 14

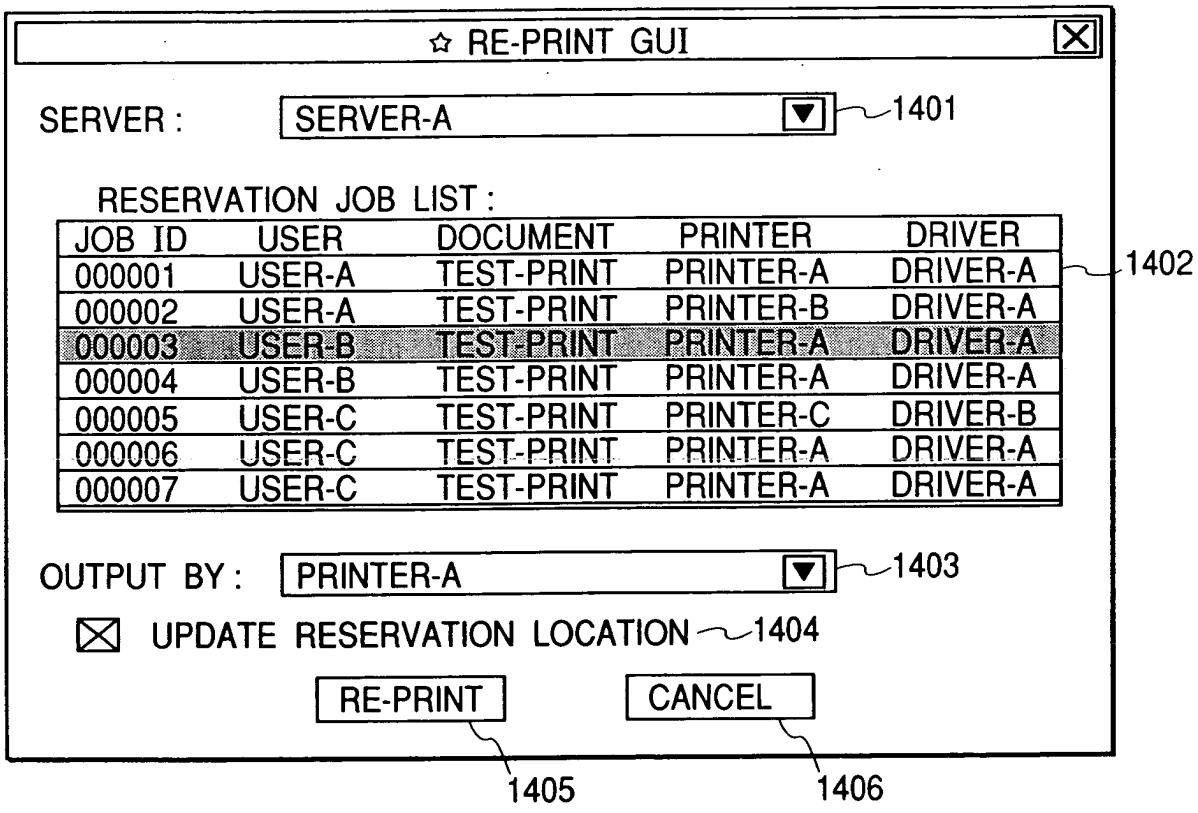


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FIG. 15

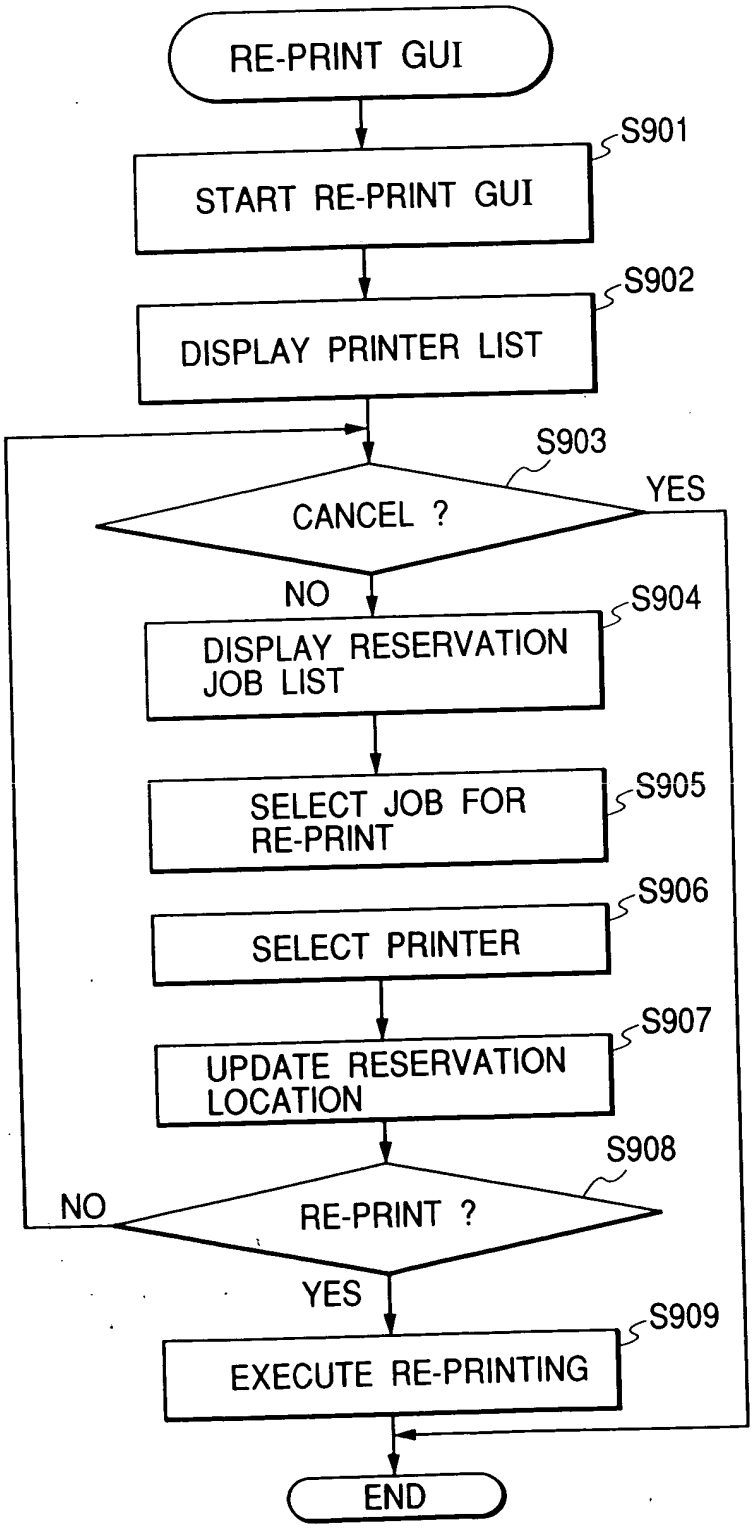


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FIG. 16

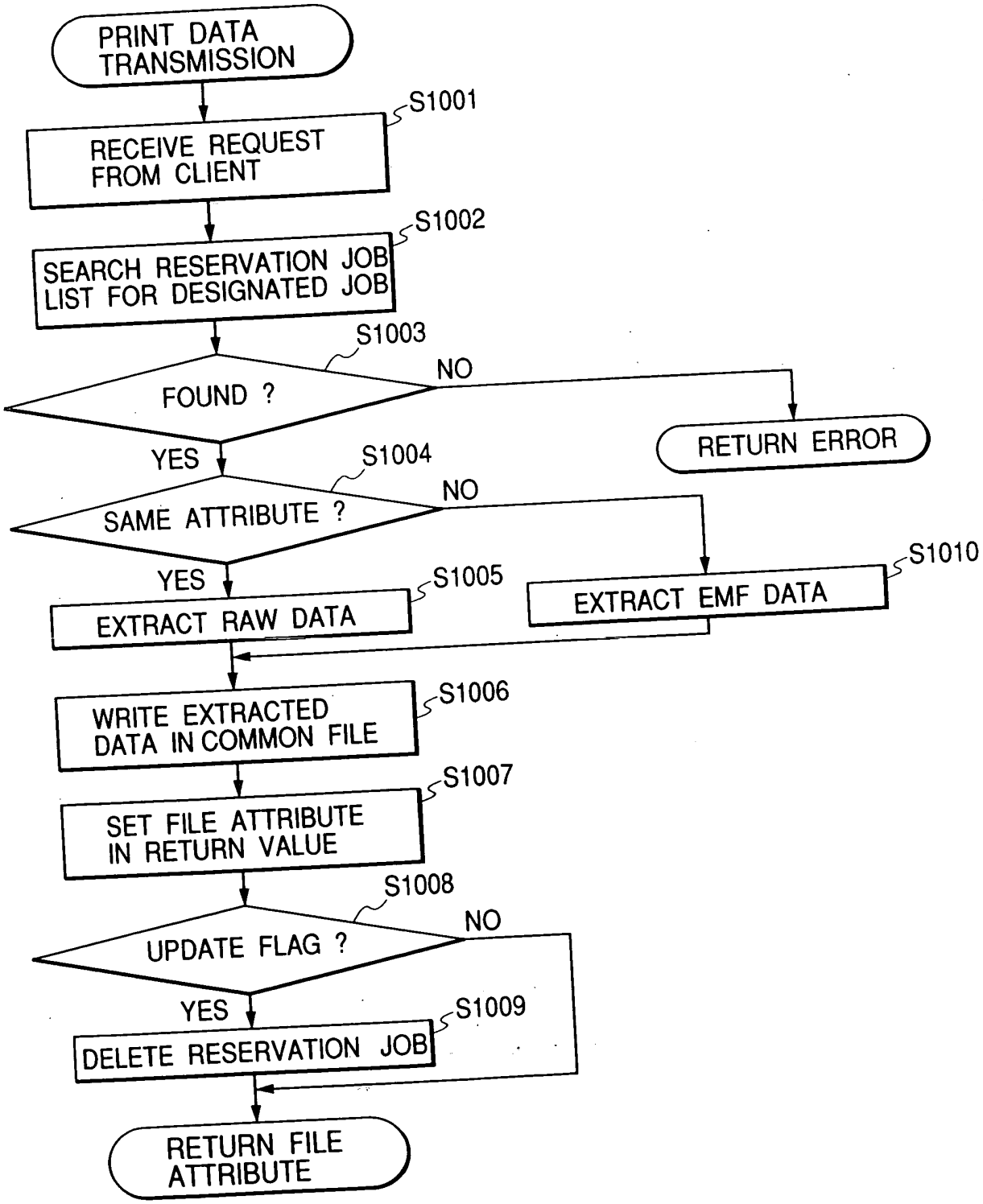


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FIG. 17

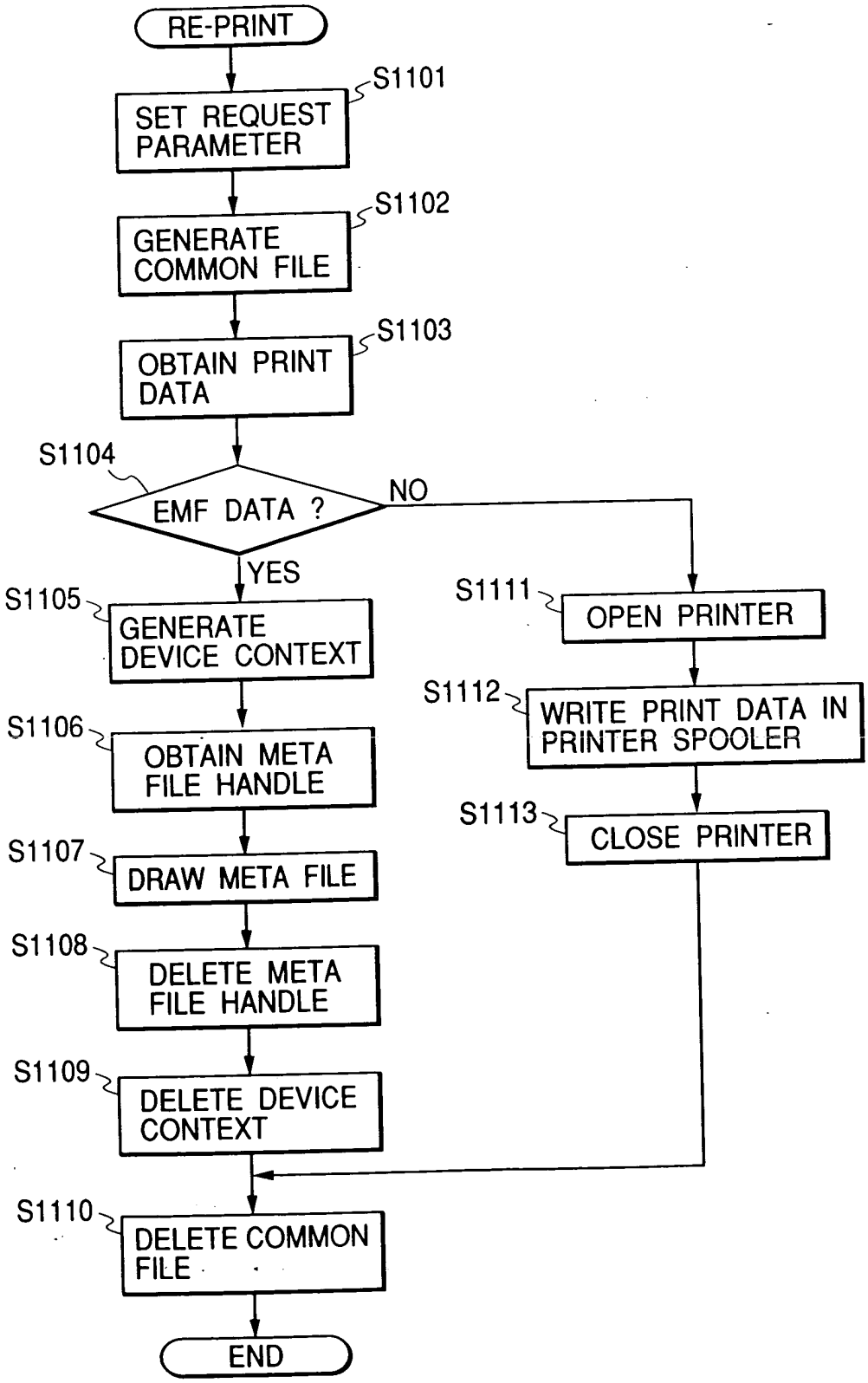


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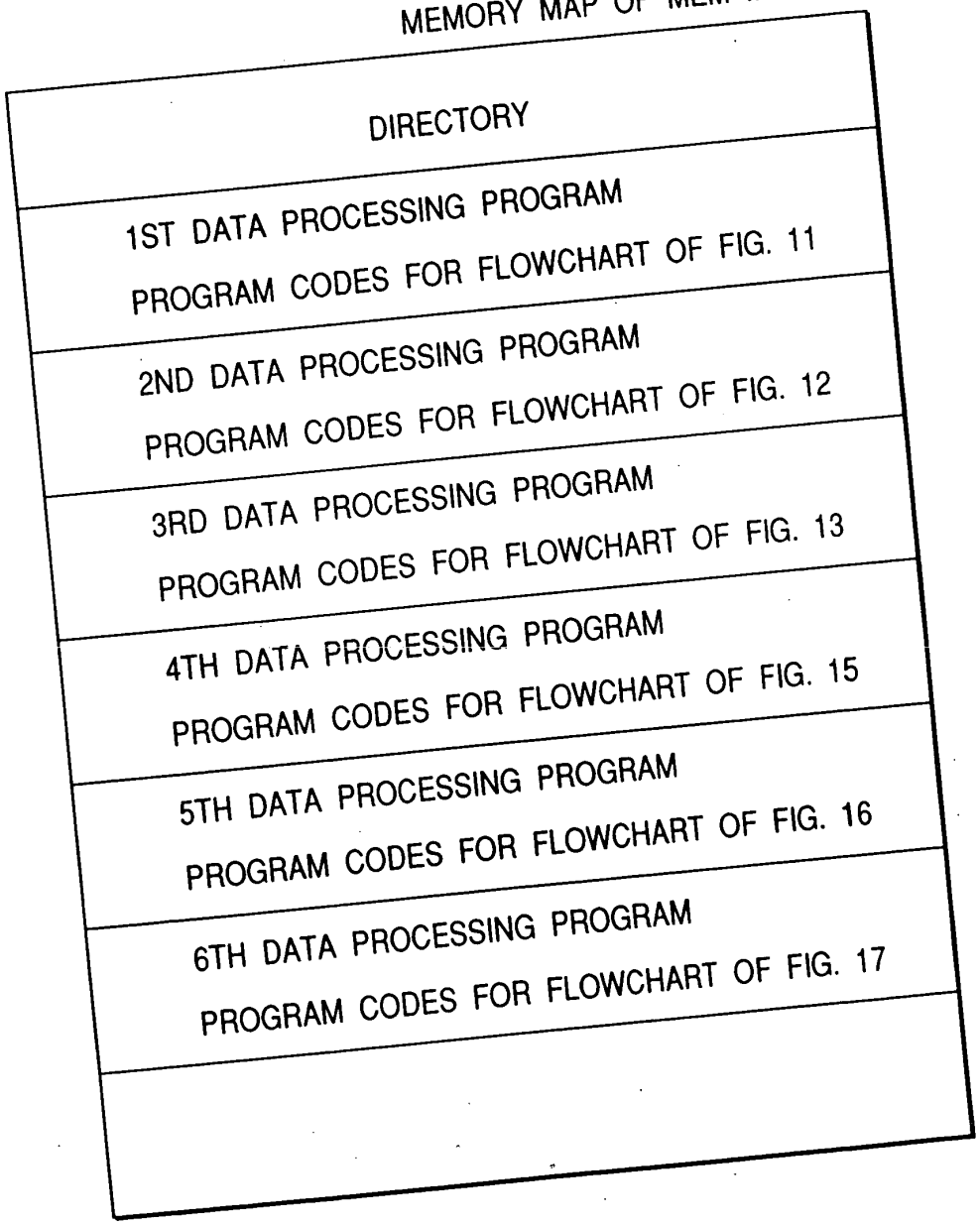
FIG. 18


MEMORY MAP OF MEM MEDIUM
DIRECTORY
1ST DATA PROCESSING PROGRAM
PROGRAM CODES FOR FLOWCHART OF FIG. 11
2ND DATA PROCESSING PROGRAM
PROGRAM CODES FOR FLOWCHART OF FIG. 12
3RD DATA PROCESSING PROGRAM
PROGRAM CODES FOR FLOWCHART OF FIG. 13
4TH DATA PROCESSING PROGRAM
PROGRAM CODES FOR FLOWCHART OF FIG. 15
5TH DATA PROCESSING PROGRAM
PROGRAM CODES FOR FLOWCHART OF FIG. 16
6TH DATA PROCESSING PROGRAM
PROGRAM CODES FOR FLOWCHART OF FIG. 17